

## **ABSTRACT OF THE DISCLOSURE**

### **Voltage Converter**

A converter includes a transformer circuit, a filter, and a controller. The  
5 transformer circuit is coupled to the filter, and the controller is coupled to the transformer  
circuit and the filter. The transformer circuit includes an input port and an  
autotransformer coupled to the input port. The converter receives an input signal at the  
input port and the filter generates an output signal at an output port. The controller  
receives the output signal from the filter and provides one or more control signals to the  
10 transformer circuit to control the output signal. A method includes receiving a first input  
signal at a transformer circuit including a first coil and a second coil, activating a first  
switch to serially connect the first coil to the second coil, activating a second switch to  
connect the second coil to a second input signal, deactivating the first switch and the  
second switch, and activating a third switch to connect the first switch to the second input  
15 signal.

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